

ARTICLE PROTECTED BY A THERMAL BARRIER COATING
SYSTEM AND ITS FABRICATION

ABSTRACT OF THE DISCLOSURE

An article protected by a thermal barrier coating system is fabricated by providing an article substrate having a substrate surface, thereafter depositing a bond coat on the substrate surface, the bond coat having a bond coat surface, and thereafter processing the bond coat to flatten the bond coat surface. A thermal barrier coating is deposited overlying the bond coat surface. The thermal barrier coating is yttria-stabilized zirconia having a yttria content of from about 3 percent by weight to about 5 percent by weight of the yttria-stabilized zirconia.